MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

DAC5018 – COMPUTER APPLICATIONS

(All Diploma Groups)

7 MARCH 2016
2.30 p.m. – 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENT:

1. This question paper consists of **NINE (9)** pages excluding the cover page. There are **TWO (2)** sections in this booklet.

2. **SECTION A**: There are **FOURTY (40)** Multiple Choice Questions (MCQ) in this section. Answer **ALL** questions in the OMR sheet provided.

3. **SECTION B**: There are **FOUR (4)** structured questions in this section. Answer **ALL** questions in the answer booklet provided.

Section A: Multiple Choice Questions (Total: 40 Marks)

*Instruction: Please **mark** your answers on the **OMR sheet** provided.*

1. Eight binary digits combine to create one byte. One billion bytes is considered as
   A. Kilobyte (KB)
   B. Megabyte (MB)
   C. Gigabyte (GB)
   D. Terabyte (TB)

2. _____ is the set of programs that enables computer's hardware devices and application software to work together.
   A. Application software
   B. System software
   C. Embedded software
   D. Operating system

3. All of the following statements are **TRUE** about guidelines to minimize risk of injury or discomfort when using the computer **EXCEPT**:
   A. Eliminate light shining directly into your eyes or reflected glare.
   B. Adjust the height of your chair so that your feet touch the floor.
   C. Monitor should be placed at least 10 inches from your eyes and at eye level.
   D. Your wrists should be flat with respect to the keyboard, and your forearms should be parallel to the floor.

4. Which type of microphone has the following features?
   i. Picks up sounds from all directions at once.
   ii. The best microphone for recording more than one voice such as during a conference call.
   iii. Microphone's response is generally considered to be a perfect sphere in three dimensions.

   A. Clip on microphone
   B. Close talk microphone
   C. Unidirectional microphone
   D. Omnidirectional microphone

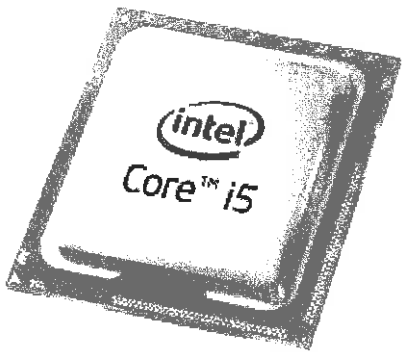

Figure 1: Component X

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5. What is the function of component X shown in Figure 1?
   A. Enables your computer to connect with other computers or to a cable modem to facilitate a high-speed Internet connection.
   B. Provides a connection for the speakers and microphone.
   C. Brain of the computer that controls all the functions performed by the computer's other components and processes all the commands.
   D. Volatile storage that can stores instructions and data.

6. Powering on your computer from a completely turned-off state, such as when you start your computer in the morning, is called _____.
   A. warm boot
   B. sleep mode
   C. hibernation
   D. cold boot

7. Which of the following are ways to protect your personal information?
   i. Keep personal information personal.
   ii. Know who your friends are, and know who can see the information you post.
   iii. Do not post information that is often used as security question to verify identity.
   iv. Let your friends keep one of your account password.

   A. i, ii and iii
   B. ii, iii and iv
   C. i, iii and iv
   D. All of the above

8. An e-commerce site such as eBay is a _____ transaction at website.
   A. B2G
   B. B2B
   C. C2C
   D. C2B

9. The following statements are **TRUE** about Web 2.0 technologies **EXCEPT**:
   A. The examples of Web 2.0 technologies are social networking, blogs, wikis, podcasts, and webcasts.
   B. Web 2.0 can be described as the social web, in which the user is also a participant.
   C. Podcasts are personal journals that use video as the primary content in addition to text, images, and audio.
   D. Wikis are a type of website that allows users to collaborate on content by adding, removing or editing it.

10. What is Really Simple Syndication (RSS)?
    A. XML –based format that facilitates the delivery of frequent content updates on Web pages.
    B. Clip of video contents that is broadcast over the Internet using compressed audio and video files.
    C. Type of website that allows users to change its contents by adding, removing or editing the contents.
    D. Program that guide user step by step to install application software.

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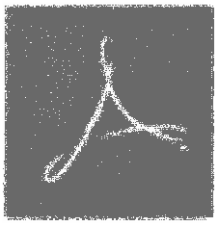

Figure 2: Adobe Reader

11. What is the function of the popular player and plug –in shown in Figure 2?
    A. Plays animation and other graphics files
    B. Plays streaming audio, video, animations and multimedia presentation.
    C. Plays interactive games, multimedia, graphics and streaming audio and video on the web.
    D. Views and prints portable document format (PDF) files.

12. Software that is used to perform tasks at home, school and work is called _____. This type of software can do multitude of things such as writing letters, sending emails, paying taxes, creating presentations, editing photos and taking online courses.
    A. system Utilities
    B. application Software
    C. system Software
    D. information Software

13. Which of the following are software suites?
    i. Microsoft Office
    ii. Apple iWork
    iii. Apache Open Office
    iv. Windows 8.1

    A. i, ii and iii
    B. ii, iii and iv
    C. i, iii and iv
    D. All of the above

14. A _____ is a small program that groups a series of command that will run as a single command.
    A. wizard
    B. template
    C. programming software
    D. macro

15. Which of the following are tips for designing good presentations?
    i. Be careful with color.
    ii. Use bullets for key points.
    iii. Keep animation and background audio to maximum.
    iv. Consider font size and style.

    A. i, ii and iii
    B. ii, iii and iv
    C. i, ii and iv
    D. All of the above

Continued.....

16. The location of a file on a drive as shown in Figure 3 below is known as the _____.

C:\Documents\Computer\Homework\Assignment.docx

Figure 3: Location of a file on a drive

A. document location
B. file position
C. file address
D. file path

17. Preemptive multitasking refer to the _____.
A. operating system processing a task assigned a higher priority before processing a task assigned a lower priority
B. operating system processing billions of task in a second
C. operating system playing video and audio in multiple windows
D. operating system handling interrupts that need immediate attention

18. The RAM storage borrowed from hard drive space is called _____.
A. paging
B. swap file
C. thrashing
D. virtual memory

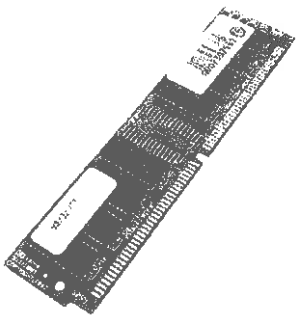

Figure 4: CPU component

19. What is the component shown in Figure 4?
A. RAM
B. ROM
C. CPU
D. Network Interface Card

20. Which of the following are the features of plug and play (PnP)?
i. Software and hardware standard that Microsoft created with the Windows 95 OS.
ii. Designed to facilitate the installation of new hardware in PCs by including in the OS.
iii. Enables users to plug a new device into port on the system unit.
iv. Insert the driver is needed to run program.

A. i, ii and iii
B. ii, iii and iv
C. i, iii and iv
D. All of the above

Continued.....

21. The _____ is the rule to predict that the number of transistors inside a CPU will increase so fast that CPU capacity will double about every 2 years.
    A. Morrse's Law
    B. Transaction Law
    C. Moore's Law
    D. Mores's Law

22. Which of the following statement is **FALSE** about the Arithmetic Logic Unit (ALU)?
    A. Performs arithmetic and bitwise logical operations on integer binary numbers.
    B. Coordinates the activities of all the other computer components.
    C. Performs all the arithmetic calculations.
    D. Makes logic and comparison decisions such as comparing items to determine if one is greater than, less than, or equal to another.

23. The _____ of the CPU dictates how many instructions it can process in each second.
    A. clock weight
    B. clock speed
    C. multiple cores
    D. hyperthreading

24. _____ happens when user runs the CPU at a faster speed than the manufacturer recommends. It produces more heat that will shorten the lifetime of the CPU.
    A. Hyperthreading
    B. Preemptive multitasking
    C. Overclocking
    D. Thrashing

25. Which of the following describes the steps in the CPU machine cycle?
    i. It fetches the required piece of data or instruction from RAM, the temporary storage location for all the data and instructions the computer needs while it is running.
    ii. It calculates the number of cycles in data processing.
    iii. It decodes the instruction into something the computer can understand.
    iv. It executes the instruction.

    A. i, ii and iii
    B. ii, iii and iv
    C. i, iii and iv
    D. All of the above

26. Which of the following statement is **FALSE** about Linux operating system?
    A. Linux is an open source operating system designed for use on personal computers and as a network operating system.
    B. Linux has a reputation as a stable operating system that is not subject to crashes or failures.
    C. Linux is available for download in various packages known as distributions or distros.
    D. Developed in 1969 by Ken Thompson and Dennis Ritchie of AT&T's Bell Labs.

Continued.....

27. A digital camera's resolution is measured in _____.
    A. megapixels, (MP)
    B. megabytes, (MB)
    C. points, (pt)
    D. dots per inch, (dpi)

28. Which of the following factors influence the image quality in digital photography?
    i. The quality of the lenses used
    ii. Image sensor size
    iii. File format and compression
    iv. Color management software

    A. i, ii and iii
    B. ii, iii, and iv
    C. i, ii and iv
    D. All of the above

29. _____ communication turns a standard Internet connection into a means to place phone calls including long-distance calls.
    A. Mobile Internet
    B. Voice over Internet Protocol
    C. WiFi
    D. 3G/4G Signal

30. Which of the following statement is **FALSE** about the disadvantage of using VoIP?
    A. Loss of service if the power is interrupted.
    B. Poor sound quality and reliability.
    C. Electrical power is needed.
    D. Portable and low cost.

- Full-featured computers
- Very thin, lightweight computing
- Don't have optical drives
- Offer SSD drives
- Weigh under 3 pounds

Figure 5: List of features

31. Which of the following devices refer to the list of features in Figure 5?
    A. Ultrabooks
    B. Tablets
    C. Notebooks
    D. Personal computer

32. A _____monitors keystrokes with the intent of stealing passwords, login IDs, or credit card information.
    A. key logger
    B. keystroke bug
    C. key hold
    D. keyboard spy

Continued.....

33. Which of the following statements are nefarious acts perpetrated by identity thieves?
    i. Counterfeiting your existing credit and debit cards.
    ii. Requesting changes of address on your bank and credit card statements, which makes detecting fraudulent charges take longer.
    iii. Opening new credit cards and bank accounts in your name and then writing bad checks and not paying off the credit card balances.
    iv. Obtaining medical services under your name.

    A. i, ii and iii
    B. ii, iii and iv
    C. i, iii and iv
    D. All of the above

34. Which of the followings statements are is **FALSE** about the Firewall?
    i. Blocking access to logical port
    ii. Keeping your computer's network address secure.
    iii. Firewalls can be configured so that they filter out packets sent to specific logical ports in a process known as *packet filtering*.
    iv. Detecting a virus signature or suspicious activity, such as the launch of an unknown macro.

    A. i, ii and iii
    B. ii, iii and iv
    C. i, iii and iv
    D. All of the above

- Triggered by passage of time
- Activated on a specific date

Figure 6: Characteristic of computer virus

35. Which of the computer viruses below has the characteristics in Figure 6?
    A. Logic bomb
    B. Boot-sector
    C. Time bomb
    D. Script

36. _____ take advantage of file transport methods such as e-mail or network connections to spread on their own.
    A. Worms
    B. Micro Virus
    C. Email Virus
    D. Encryption Virus

37. Which of the following statements are virus symptoms?
    i. Existing program icons or files suddenly disappear. Viruses often delete specific file types or programs.
    ii. You start your browser, and it takes you to an unusual home page or it has new toolbars.
    iii. Odd messages, pop-ups, or images are displayed on the screen, or strange music or sounds play.
    iv. System slows down or takes a long time to boot up.

    A. i, ii and iii
    B. ii, iii and iv
    C. i, iii and iv
    D. All of the above

Continued.....

38. _____ is a program deployed by hackers that looks at each packet as it travels on the Internet. It is not just those addressed to a particular computer, but all packets coming across a particular network.

A. Denial of service
B. Data encryption
C. Rootkits
D. Sniffer

39. A device that protects your computer against power surges is called a(n) _____.

A. extension wire
B. surge protector
C. external plug
D. power extension

40. Which of the following are types of biometric authentication?

i. Fingerprint
ii. Iris pattern in eye
iii. Voice authentication
iv. Face recognition

A. i, ii and iii
B. ii, iii and iv
C. i, iii and iv
D. All of the above

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Section B: Structured Questions (Total: 60 Marks)

Instruction: Please write your answers in the Answer Booklet provided.

Question 1 (Total: 15 marks)

a) Briefly explain why smartphone is considered as a computer. (4 Marks)

b) List **SIX (6)** computing devices for people with disabilities. (6 Marks)

c) Explain step by step on how the Internet works when you want to access www.amazon.com. (5 Marks)

Question 2 (Total: 15 marks)

a) In a spreadsheet software, you can enter several types of data into a cell. Explain **FOUR (4)** types of data. (6 Marks)

b) List **THREE (3)** features of Personal Financial software and give **ONE (1)** example. (4 Marks)

c) List **FIVE (5)** accessibility utilities. (5 Marks)

Question 3 (Total: 15 marks)

a) List **THREE (3)** examples of operating systems used in smartphones. (3 Marks)

b) Explain the **FOUR (4)** steps in the boot process. (8 Marks)

c) List **FOUR (4)** factors to consider when evaluating the CPU performance. (4 Marks)

Question 4 (Total: 15 marks)

a) Describe **THREE (3)** ways to prevent spam. (3 Marks)

b) Explain **THREE (3)** types of hackers. (6 Marks)

c) Explain the **THREE (3)** main functions of antivirus software. (6 Marks)

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